

OAR POLYNUCLEOTIDES, POLYPEPTIDES AND THEIR USE IN PHA PRODUCTION IN PLANTS

ABSTRACT OF THE DISCLOSURE

The invention relates to the genes encoding 3-oxoacyl-[acyl carrier protein(ACP)]
reductase (OAR). Compositions and methods for producing polyhydroxyalkanoate in
transformed plants and transformed host cells are provided. Such methods find use in
5 producing biodegradable thermoplastics in host cells and plants. Isolated nucleotide
molecules, expression cassettes, isolated polypeptides and genetically manipulated host
cells, plants, plant tissues, plant cells and seeds are also provided.

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